

(12) United States Patent

Clements et al.

US 6,845,566 B1 (10) Patent No.: (45) Date of Patent: Jan. 25, 2005

(54)	ROTATIN	TATING FEELER GAGE			
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(*)	Notice:	Subject to any disclaimer, the term of thi			

Subject t	o any discl	laım	er, the te	rm of t	his
patent is	extended	or a	adjusted	under	35
USC 1	54(b) by 0	day	/S		

	0.5.c. 154(b) by 6 days.
(21)	Appl. No.: 10/672,963
(22)	Filed: Sep. 29, 2003
(51)	Int. Cl. ⁷ G01B 3/20 ; G01B 3/50
(52)	U.S. Cl.
	33/542
(58)	Field of Search
	33/501.05, 501.06, 542, 544, 544.1, 567,
	613, 600, 832–833, 602; 114/201 R

References Cited (56)

U.S. PATENT DOCUMENTS

4,534,135 A		8/1985	Wilger et al.	
4,930,226 A	*	6/1990	Shindelar	33/655
4,945,651 A	*	8/1990	Georg	33/832
5,038,600 A	*	8/1991	Friedman	33/502
5,144,753 A	*	9/1992	Murphy	33/514
5,288,292 A	*	2/1994	Giraud et al	33/512
5,421,224 A	*	6/1995	Bond	81/436
5,562,065 A		10/1996	Duarte et al.	
5,592,747 A	*	1/1997	Kessler	33/783
6,397,486 B1	*	6/2002	Keys et al	33/522

^{*} cited by examiner

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(57)**ABSTRACT**

A feeler gage including a pin member having a first end and an opposing end with a gage connected to the opposing end of the pin member. The gage has a first end connected to the pin and a free end projecting past a peripheral dimension of the pin. An indicator is formed on the first end of the pin member in alignment with a longitudinal axis of the gage for determining a position of the gage upon rotation of the pin member. The gage is of a predetermined thickness and is aligned with the indicator formed at the first end of the pin member. Rotation of the pin member correspondingly rotates the gage of the pin member. If the gage rotates freely, then a gap is determined to be present in the area where the gage is rotated through. If the gage does not rotate freely, then no gap exists.

5 Claims, 5 Drawing Sheets

